

# JOHN PATON



## EXPERIENCE

### **DATA SCIENTIST & CONSULTANT, KPMG AMSTELVEEN, 2016 – PRESENT**

Maximizing the value of data for clients through execution of exploratory data analyses, data science proofs of concept, and production machine learning projects as part of the Advanced Analytics & Big Data team. Advisory services for organizations seeking to become more data-driven.

### **INTERN COMPUTATIONAL PLASMA PHYSICS, DIFFER NIEUWEGEIN, SEPTEMBER 2013 – JUNE 2014**

Internship at the Dutch Institute for Fundamental Energy Research (DIFFER). Implementation of Joint European Torus (JET) simulation into the RAPID Plasma Transport simulator (RAPTOR) framework in MATLAB, and numerical optimization of heating and current drive actuator trajectories during JET ramp-up, culminating in B.Sc. thesis.

### **IMPACT, ABERCROMBIE & FITCH AMSTERDAM, MARCH – SEPTEMBER 2013**

Representation of brand image in store visuals and personal appearance, direction of customer requests, and general operational support.

### **(ASSISTANT) DIRECTOR OF DAY CAMPS, FOOTHILLS ALLIANCE CHURCH SUMMERS 2008 – 2011**

Direction of all aspects of summer programs for children, including managing other paid and volunteer staff, volunteer recruitment, program planning, parent relations, and responsibility for children and staff on afternoon and overnight trips.

### **SENIOR TUTOR, MATHPRO LEARNING INC. SPRING 2011**

Independent tutoring of high school students in the areas of math and physics, assignment of homework and provision of weekly online progress reports to parents.

### **SALES ASSOCIATE, BOOTLEGGERS SEPTEMBER 2008 – MARCH 2011**

Sale of clothing and accessories and maintaining cleanliness in the store. Retention of a comprehensive and constantly changing base of product knowledge, and training in loss prevention. Point of sale operations.

## SKILLS, TOOLS & LANGUAGES

Strong mathematical background, Python programming, SciPy stack (NumPy, Pandas, Jupyter), Scikit-learn, Apache Spark, Apache Hive/HQL, version control with Git, command line/bash, Octave/MATLAB, LaTeX.

Native English speaker, fluent Dutch, confident in and with the public.

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## EDUCATION

### **UPPSALA UNIVERSITY** M.SC. IN THEORETICAL PHYSICS, 2014-2016

Followed the track "Strings and Quantum Fields" including quantum field theory, string theory, general relativity, and a variety of other physics and mathematics topics. Graduated in June 2016 after the completion of a 30ECP (one semester) thesis on amplitudes in superstring theory.

### **AMSTERDAM UNIVERSITY COLLEGE (AUC)** B.SC. IN PHYSICS, 2011-2014

Joint international honors academy of the University of Amsterdam and the VU University Amsterdam. Graduated *summa cum laude* after an 18ECP project on computational plasma physics in fusion energy.

### **UNIVERSITY OF CALGARY** 2009-2011

Began studies in the faculties of Business and Arts, then transferred into the Physics program. Recognized on Dean's List (honors) for all four semesters of study.

### **QUEEN ELIZABETH HIGH SCHOOL** 2002-2009

Graduated with honours from the Gifted and Talented Education (GATE) program in Calgary.

## AWARDS

**SUMMA CUM LAUDE** AMSTERDAM UNIVERSITY COLLEGE, 2014. For graduating in top 5% of class.

**AUC SCHOLARSHIP** AUC SCHOLARSHIP FUND, 2013. For academic achievement, future potential, and need.

**JASON LANG SCHOLARSHIP** ALBERTA EDUCATION, 2011. For outstanding academic achievement.

**PHYSICS DEPARTMENT BOOK AWARD** UNI. OF CALGARY, 2011. For top of class performance in physics.

**LOUISE MCKINNEY SCHOLARSHIP** ALBERTA EDUCATION, 2010. For academic excellence.

**CRHF RETAIL AS A CAREER SCHOLARSHIP** RCC, 2009. For displaying potential in business leadership.

**ALEXANDER RUTHERFORD SCHOLARSHIP** ALBERTA ED., 2009. For secondary school academic excellence.